

AMENDMENTS TO CLAIMS

1. (Currently Amended) A preparation method of a polyamide thin film composite (TFC) reverse osmosis membrane using interfacial polymerization of an amine aqueous solution and amine-reactive compound, the preparation method comprising the steps of:

(a) forming [[an]]a polyamide active layer through interfacial polymerization by contacting a surface of a porous support with [[an]]the amine aqueous solution containing a polyfunctional aromatic amine monomer and an organic solution containing polyfunctional acyl halide monomer as an amine-reactive compound; and

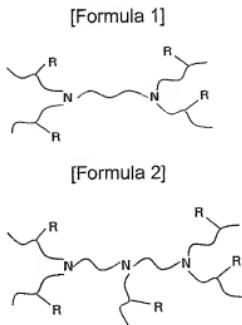
(b) performing post-treatment preceded by the forming formation of the polyamide active layer by contacting the polyamide active layer with an aqueous solution containing 0.1 to 100 wt % of polyfunctional tertiary alcohol amine comprising at least two tertiary amines having substituted alcohol group on the hydrocarbon side chains.

2. (Original) The preparation method of claim 1, wherein the polyfunctional aromatic amine monomer is selected from the group consisting of 1,4-phenylenediamine, 1,3-phenylenediamine, 2,5-diaminotoluene, diphenyldiamine, and 4-methoxy-m-phenylenediamine.

3. (Original) The preparation method of claim 1, wherein the polyfunctional acyl halide monomer as the amine-reactive compound is selected from the group consisting of trimesoyl chloride (TMC), terephthaloyl chloride (TPC) and isophthaloyl chloride (IPC).

4. (Cancelled)

5. (Original) The preparation method of claim 1, wherein the polyfunctional tertiary alcohol amine is represented by the Formula 1 or 2:



wherein R represents an alcohol group.

6. (Original) The preparation method of claim 1, wherein the polyfunctional tertiary alcohol amine is selected from the group consisting of N,N,N,N'-tetrakis(2-hydroxylpropyl)ethylenediamine, N,N,N',N'-tetrakis(2-hydroxylethyl)ethylenediamine, N,N,N',N",N'''-pentakis(2-hydroxypropyl)diethylenetriamine and 2,2',2",2'''-ethylenedinitrilotetraethanol.

7. (Currently Amended) The preparation method of claim 1, wherein the content of the polyfunctional tertiary alcohol amine among the aqueous solution in the step of performing post-treatment is 0.1 to 100 wt %.

8. (Original) The preparation method of claim 1, further comprising drying the polyamide TFC reverse osmosis membrane after performing the post-treatment.

9. (Original) The preparation method of claim 8, wherein the drying include a temperature in the range of from about room temperature to about 150°C and a period of time in the range of from about 10 seconds to 1 hour.

10. (Original) A polyamide thin film composite (TFC) reverse osmosis membrane prepared by the method of claim 1.